

# **EXHIBIT A**

MPACSCSDV	10	FQYETN	20	KVTR	IQSMNYGTIK	30	WFFHVI	40	IFSY	VCFALVSDKL	50	YQRKEPVISS	60
VHTKVKGIAE	70	VKEEIVENG	80	KKLVHSVFD	T	ADYTFPLQGN	90	SFFVMTN	100	FLK	110	TEGQEQR	120
EYPTRRTLCS	130	SDRGCKKGWM	140	DPQSKGIQTG	150	RCVVYEGNQK	160	TCEVSAWCPI	170	EAVEEAPRPA	180		
LLNSAENFTV	190	LIKNNIDFPG	200	HNYTTRN	210	ILP	220	GLNITGTFHK	230	TQNPQCPIFR	240	LGDIFFRETGD	
NFSDVAIQGG	250	IMGIEIYWDC	260	NLDRWFHHCR	270	PKYSFRRLLD	280	KTTNVSLYPG	290	YNRRVAKYYK	300		
ENNVEKRTL	310	KVFGIRFDIL	320	VFGTGGKF	330	DI	340	IQLVVYIGST	350	LSYFGLATVF	360	IDFLIDTYSS	
NCCRSHIYPW	370	CKCCQPCVVN	380	EYYRKKCES	390	IVEPKPTLKY	400	VSFVDESHIR	410	MVNQQLLGRS	420		
LQDVKGQEV	430	RPAMDFTDLS	440	RLPLALH	450	DTTP	460	PIPGQPEEIR	470	LLRKEATPRS	480	RDSPVWCQCG	
SCLPSQLPES	490	HRCLEELCCR	500	KKPGACITTS	510	ELFRKLVLSR	520	HVLQFLLLYQ	530	EPLLALDVDS	540		
TNSRLRHCA	550	RCYATRRFGS	560	QDMADFAILP	570	SCCRWRIRKE	580	FPKSEGQYSG	590	FKSPY			

Exhibit 1

...~~GLNF~~... : Amino acid sequence deleted in HBMP2X7v splice variant  
 (R) : Amino acid essential for ATP binding and P2X7R activation  
 ...WFFH... : Transmembrane domain